



JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

- (1) Dean Bernard Jacobs
a resident of Berkeley, California; and
- (2) Reto Kramer
a resident of San Francisco, California; and
- (3) Ananthan Bala Srinivasan
a resident of San Francisco, California

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have invented certain new and useful improvements in:

FEB 20 2002

DATA REPLICATION PROTOCOL

Technology Center 2100

said application having Application Number 09/975,590 and filed on the 11th day of October 11, 2001, and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention.

WHEREAS BEA Systems, Inc. (hereinafter termed "Assignee"), a corporation of the State of Delaware, having a place of business at 2315 North First Street, San Jose 95131, State of California, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey to said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any or all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prose-

cuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed this instrument on the date of acknowledgement before the Notary Public as given below and delivered this instrument to said Assignee:

1. _____ On the ___ day of _____, 20___;

Or

2. ✓ Said application having SC/Serial Number 09/975,590 and filed on the 11th day of October, 2001.

Date of Execution of Joint to Corporate Assignment: 1/17/2002

(1) Dean Jacob
(Inventor's Signature)

State of California

County of San Francisco

On January 17, 2002 before me, John Deep Notary Public
(Name and title of officer)

personally appeared Dean Jacob, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature John Deep

1. _____ On the __ day of _____, 20__;

Or

2. ✓ Said application having SC/Serial Number 09/975,590 and filed on the 11th day of October, 2001.

Date of Execution of Joint to Corporate Assignment: 7/15/2002

(2) R. Kraen
(Inventor's Signature)

State of California

County of San Francisco

On January 17, 2002 before me, D. John Deefe, Notary Public
(name and title of officer)

personally appeared Reth Kraen, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature D. John Deefe

1. _____ On the ___ day of _____, 20___;

Or

2. ✓ Said application having SC/Serial Number 09/975,590 and filed on the 11th day of October, 2001.

Date of Execution of Joint to Corporate Assignment: Jan 15, 2002

(3) *Shrinivasan*
(Inventor's Signature)

State of California

County of San Francisco

On January 17, 2002 before me, *B. Jan Deede, Notary Public*
(name and title of officer)

personally appeared *A. P. Shrinivasan*, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature *B. Jan Deede*


